

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

THE COS. THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID CORY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE LICHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT ED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'95B71'

In Jestimenn Therest, I have hereunto set my hand and caused the seal of the Plant Pariety Protection Office to be affixed at the City of Washington, D.C. this eighth day of May, in the year of our Lord two thousand one.

alank fort

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service answeigenon

cretary of Agriculture

### U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection.

APPLICATION FOR PLANT VARIETY PROTECTION (Instructions and information collection burden stateme			determine if a blant variety protection 2. 2421). Information is held confidential 2426).
NAME OF APPLICANT(S) (as it is to appear on the Certificate)		EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc.			95B71
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and C	ountry)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
7100 NW 62nd Ave		515-270-3582	980079
P.O. Box 1000		(include area code)	F DATE
Johnston, Iowa 50131-1000		515-253-2288	1 2 Jan 98
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Bo	tanical)	FILING AND EXAMINATION FEE:
Glycine max L.	Legumin	osae	F S QUSO.CO
9. CROP KIND NAME (Common name)			
Soybean			R 10/00/1/9/
10, IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANI Corporation	ZATION (corporation, partners	chip, association, etc.) (Common name)	CERTIFICATION FEE: 15
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	TÉ BATÉ TOY TOY TOY
lowa		May 6, 1926	5/2/01
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO S	ERVE IN THIS APPLICATION	ON AND RECEIVE ALL PAPERS	(include area code)
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO S  John Grace Dr. Davia Schmidt  7300 NW 62nd Ave.  P.O. Box 1004	Jean Brome		515-270-3582
P.O. Box 1004 4April 2	P.O. Box 10	000	(include area code)
Johnston, Iowa 50131-1004		wa 50131-1000	515-253-2288
a.    Exhibit A. Origin and Breeding History of the Variety  b.    Exhibit B. Statement of Distinctness  c.    Exhibit C. Objective Description of the Variety  d.    Exhibit D. Additional Description of the Variety  e.    Exhibit E. Statement of the Basis of the Applicant's Ownership  f.    Voucher Sample (2,600 viable untreated seeds or, for tuber prog.  g.    Filing and Examination Fee (\$2450), made payable to "Treasurer	pagated varieties verificati r of the United States"	on that tissue culture will be deposited and m	
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD  YES If "yes," answer items 18 and 19 below)		AS A CLASS OF CERTIFIED SEED (See Sections)," go to item (20)	n 83(a) of the Plant Variety Protection Act)?
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITE	·····	<del></del>	OF PRODUCTION BEYOND BREEDER SEED?
GENERATIONS?  YES NO		FOUNDATION REGISTE	RED CERTIFIED
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN I  YES (If "yes," give names of countries and dates)  U.S 1997	RELEASED, USED, OFFER	ED FOR SALE, OR MARKETED IN THE U.S. O	R OTHER COUNTRIES?
21. The applicant(s) declare that a viable sample of basic seed of the variety applicable, or for a tuber propagated variety a tissue culture will be depo			
The undersigned applicant(s) is/are) the owner(s) of this sexually reproduce Section 41, and is entitled to protection under the provisions of Section 4	42 of the Plant Variety Prot	ection Act.	new. distinct. uniform, and stable as required
Applicant(s) is(are) informed that false representation herein can jeopard	lize protection and result i	n penalties.	
SIGNATURE OF APPLICANTIONNER(S)	SIGN	ATURE OF APPLICANT (Owner(s))	
Name (Please print or type)	Nan	ne (Please print or type)	2
D. Khn Grace III			<u> </u>
CAPACITY OR TITLE  Soybean Research Coordinator  DATE  12/1	18/97 CAPA	CITY OR TITLE	DATE
SD-470 4-95) (Previous editions are to be destroyed)		(See reverse for instructions and	l Information collection burden statement)

### Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 95B71

Variety 95B71 evolved from a 1993 cross of 9584 x 90687. 90687 is a cross 9544 x [9341/(9341/40-3-2)]

It is an F3 generation derived by modified single seed descent. The F4 PRYT was grown in the summer of 1994. Subsequently, 95B71 has undergone two years of extensive testing and purification, and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of resistance to labeled Roundup Brand herbicides, variety 95B71 was released for sale.

The purification block was grown during the winter of 1993-94. 0.4 acres of 95B71 was grown in Union City, TN in the summer of 1995. In the winter of 1995-96 forty pounds of 95B71 was sent to Costa Rica for increase. During the summer of 1996, sixty acres of parent seedstock was produced in Pocahontas, Arkansas and 2000 bushels harvested.

## Exhibit B. Statement of Distinctness

Soybean Variety 95B71

Variety 95B71 is most similar to variety 9584. Both varieties have white flowers, tawny pubescence and yellow seeds with black hila. However, 9584 is susceptible to labeled Roundup Brand herbicides whereas 95B71 is resistant.

# U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SEED DIVISION - PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

### **OBJECTIVE DESCRIPTION OF VARIETY**

SOY	BEAN (Glycine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Pioneer Hi-Bred International, Inc.	·	95B71
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)		FOR OFFICIAL USE ONLY
7300 N.W. 62nd Ave., P.O. Box 1004		PVPO NUMBER
Johnston, IA 50131-1004		9800079
Choose the appropriate response which characterizes the variety in the number of boxes provided, place a zero on the first box when nu adequate soybean variety description. Other characters should be or	mber is 9 or less (e.g., 0 9 ). Sta	rred characters 🛨 are considered fundamental to an
1. SEED SHAPE:		
2 L	W   T	
1 = Spherical (L/W, L/T, and T/W ratios = < 1	1.2) 2 = Spherica	al Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	•	Flattened (L/T ratio > 1.2; T/W > 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Sp	ecify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
2 1 = Dull ('Corsoy 79'; 'Braxton')	2 = Shiny ('Nebsoy'; 'Ga	asoy 17')
★ 4. SEED SIZE: (Mature Seed)		
1 3 Grams per 100 seeds		
★ 5. HILUM COLOR: (Mature Seed)		
6 1 = Buff 2 = Yellow 3 = Brown 4 = Gray	5 = Imperfect Black 6 = B	lack 7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:		
2 1 = Low 2 = High		
★ 8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 a) 2 = Ty	pe B (SP1 b)	
★ 9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis')	2 = Green with bron	ze band below cotyledons ('Woodworth'; 'Tracy')
3 = Light Purple below cotyledons ('Beeson	'; 'Pickett 71')	
4 = Dark Purple extending to unifoliate leav	es ('Hodgson'; 'Coker Hampton	266A')
★ 10. LEAFLET SHAPE:	•	
3 1 = Lanceolate 2 = Oval 3 =	Ovate 4 = Other (Speci	fy)
FORM LMGS-470-57 (6-83) (Edition of 2-82 is obsolete	9.)	Page 1 of 4

		ranoty traine oob;
	11. LEAFLET SIZE:	
	2 1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17')	
	3 = Large ('Crawford'; 'Tracy')	
	12. LEAF COLOR:	
	2 1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
*	13. FLOWER COLOR:	
	1 1 = White 2 = Purple 3 = White with purple throat	
*	14. POD COLOR;	
	1 1 = Tan 2 = Brown 3 = Black	
*	15. PLANT PUBESCENCE COLOR:	The second secon
	2 1 = Gray 2 = Brown (Tawny)	
	16. PLANT TYPES:	
	2 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton')	
	3 = Bushy ('Gnome'; 'Govan')	
*	17. PLANT HABIT:	
	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will')	•
	3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
*	40 MATURITY ORGUE	
Îг	18. MATURITY GROUP:  0 8 1 = 000 2 = 00 3 = 0 4 = 1 5 - 11 6 - 111 7 - 11	
L	1 - 000 2 - 00 3 - 0 4 - 1 5 - H 0 - H 7 - IV	8 = V
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
	BACTERIAL DISEASES:	
	★ 2 Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
	★ 1 Bacterial Blight (Pseudomonas glycinea)	
	★ 2 Wildfire (Pseudomonas tabaci)	
	FUNGAL DISEASES:	
	★ 1 Brown Spot (Septoria glycines)	
	Frogeye Leaf Spot (Cercospora sojina)	
		. []
	* Z Race 1 Race 2 Race 3 Race 4 Race 5	Other (Specify)
	Target Spot (Corynespora cassiicola)	
	Downy Mildew (Peronospora trifoliorum var. manshurica)	
	Powdery Mildew (Microsphaera diffusa)	
	Brown Stem Rot (Cephalosporium gregatum)	
	Stem Canker (Diaporthe phaseolorum var. caulivora)	
FORM 1	LMGS-470-57 (5-83)	Page 2 of 4
		F 4 4 5 6 7 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

a.		Variety Name 9	980 <b>0079</b> 95B71
19. DISEASES REACTION: (I	Enter 0 = Not Tested; 1 = Susceptible	e; 2 = Resistant) (Continued)	
FUNGAL DISEASES: (Co	ntinued)		
★ 1 Pod and Stem Blight	(Diaporthe phaseolorum var; sojae)		
O Purple Seed Stain (	Cercospora kikuchii)		
1 Rhizoctonia Root Rot	(Rhizoctonia solani)		
Phytophthora Rot (F	Phytophthora megasperma var. sojae)		
★ 1 Race 1 0 Race	e 2 1 Race 3 0 Race 4	1 Race 5 0 Race 6	0 Race 7
0 Race 8 0 Race	Other (Specify)		<del></del>
VIRAL DISEASES:	<b></b>		
1 Bud Blight (Tobacco	Ringspot Virus)		
1 Yellow Mosaic (Bean	Yellow Mosaic Virus)		
★ 1 Cowpea Mosaic (Cow	pea Chlorotic Virus)		
Pod Mottle (Bean Pod	Mottle Virus)		
★ 1 Seed Mottle (Soybean	Mosaic Virus)		
NEMATODE DISEASES:			
Soybean Cyst Nemato			
* 0 Race 1 0 Race	2 2 Race 3 1 Race 4	Other (Specify)	
Lance Nematode (Hop	lolaimus Colombus)		
★ 0 Southern Root Knot No	ematode (Meloidogyne incognita)	•	
★ 0 Northern Root Knot N	ematode (Meloidogyne Hapla)		
Peanut Root Knot Nen	natode (Meloidogyne arenaria)		
0 Reniform Nematode (	Rotylenchulus reniformis)		
OTHER DISEASE NOT	ON FORM (Specify)		
20. PHYSIOLOGICAL RESPON	SES: (ENTER 0 = Not tested, 1 = Su	sceptible, 2 = Resistant)	
★ 0 Iron Chlorosis on Calc	areois Soil		
Other (Specify)			
21. INSECT REACTION: (ENTE	R 0 = Not tested, 1 = Susceptible, 2	= Resistant)	<del> </del>
0 Mexican Bean Beetle (	Epilachna Varivestis)		
O Potato Leaf Hopper (En	nnosees fahaal		
Other (Specify)	ipousou lubucy		
<del></del>	MOST CLOSELY RESEMBLES THA		NAME OF MARKET
CHARACTER Dient Shope	NAME OF VARIETY 9584	CHARACTER	NAME OF VARIETY  9584
Plant Shape	9584	Seed Coat Luster	9584
Leaf Shape	9584	Seed Size	9584
Leaf Color		Seed shape	
Leaf Size	9584	Seedling Pigmentation	9584
FORM LMGS-470-57 (6-83)	<u>, , , , , , , , , , , , , , , , , , , </u>		PAGE 3 of A

### 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED CON	TENT	SEED SIZE G/100	NO. SEEDS
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEED	POD
Submitted 95B71	133	2.4	69			40.2	18.3	13	3
Name of Similar Variety 9584	133	2.6	75			40.5	19.0	14	3

#### PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop. Sci., 13: 420-421
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1:1-19

# Exhibit D. Additional Description of the Variety

Soybean Variety 95B71

In Exhibit C we have identified variety 95B71 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 95B71 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 95B71 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in acc 1974 (5 U.S.C. 552a) and the Paperwork R				
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	certificate is to be issued (7 U.S.C. 24	Application is required in order to determine if a plant variety protection certificate is to be Issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. Name Of Applicant(s)	2. Temporary Designation Or Experimental Number	3. Variety Name			
Pioneer Hi-Bred International, Inc.		95B71			
4. Address (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. Telephone (include area code)	6. Fax (include area code)			
7100 NW 62nd Ave	515-270-3582	515-253-2288			
P.O. Box 1000	7. PVPO Number				
Johnston, Iowa 50131-1000	98	300 <b>07</b> 9			
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, Please explain.	YES NO			
9. Is the applicant (individual or company) a U.S. national or U.S. based comp If no, give name of country	any?	✓ YES □ NO			
If no, give name of country	any? If no, please answer the following:	✓ YES □ NO			
If no, give name of country	f no, please answer the following:	· · · · · · · · · · · · · · · · · · ·			
If no, give name of country  10. Is the applicant the original owner?   ✓ YES □ NO /	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.	· · · · · · · · · · · · · · · · · · ·			
If no, give name of country  10. Is the applicant the original owner?  2 YES NO /  a. If original rights to variety were owned by individual(s	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.	national(s)?			
If no, give name of country  10. Is the applicant the original owner?  a. If original rights to variety were owned by individual(s  YES NO If no, give name of country	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.  y  is the original owner(s) a U.S. based	national(s)?			
If no, give name of country  10. Is the applicant the original owner?  a. If original rights to variety were owned by individual(s  YES NO If no, give name of country  b. If original rights to variety were owned by a company,	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.  y  is the original owner(s) a U.S. based  y	national(s)?			
If no, give name of country  10. Is the applicant the original owner?  a. If original rights to variety were owned by individual(s  YES NO If no, give name of country  b. If original rights to variety were owned by a company,  YES NO If no, give name of country	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.  y  is the original owner(s) a U.S. based  y	national(s)?			
If no, give name of country  10. Is the applicant the original owner?  a. If original rights to variety were owned by individual(s  YES NO If no, give name of country  b. If original rights to variety were owned by a company,  YES NO If no, give name of country	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.  y  is the original owner(s) a U.S. based  y	national(s)?			
If no, give name of country  10. Is the applicant the original owner?  a. If original rights to variety were owned by individual(s  YES NO If no, give name of country  b. If original rights to variety were owned by a company,  YES NO If no, give name of country	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.  y  is the original owner(s) a U.S. based  y	national(s)?			
If no, give name of country  10. Is the applicant the original owner?  a. If original rights to variety were owned by individual(s  YES NO If no, give name of country  b. If original rights to variety were owned by a company,  YES NO If no, give name of country	of no, please answer the following:  a), Is (are) the original owner(s) a U.S.  y  is the original owner(s) a U.S. based  y	national(s)?			

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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